

AM101023-2 Sequence Listing.ST25.txt  
SEQUENCE LISTING

<110> Wyeth  
Bowman, Michael  
Follettie, Maximillian  
Chen, Heng  
Williams, Cara  
Ellis, Debra  
Winkler, Aaron  
Liu, Wei

<120> COMPOSITIONS AND METHODS FOR DIAGNOSING AND TREATING ASTHMA OR  
OTHER ALLERGIC OR INFLAMMATORY DISEASES

<130> AM101023-2

<160> 1535

<170> PatentIn version 3.2

<210> 1

<211> 2185

<212> DNA

<213> Homo sapiens

<220>

<221> misc\_feature

<222> (161)..(161)

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<210> 2
<211> 657
<212> PRT
<213> Homo sapiens

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<400> 2

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Met Ile Pro Cys Arg Ala Ala Leu Thr Phe Ala Arg Cys Leu Ile Arg
1           5           10           15

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Arg Lys Ile Val Thr Leu Asp Ser Leu Glu Asp Thr Lys Leu Cys Arg
20           25           30

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Cys Leu Ser Thr Met Asp Leu Ile Ala Leu Gly Val Gly Ser Thr Leu
35           40           45

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Gly Ala Gly Val Tyr Val 50 Leu Ala Gly Glu Val 55 Ala Lys Ala Asp Ser 60

Gly Pro Ser Ile Val Val 65 Ser Phe Leu Ile Ala 70 75 Ala Leu Ala Ser Val 80

Met Ala Gly Leu Cys 85 Tyr Ala Glu Phe Gly 90 Ala Arg Val Pro Lys Thr 95

Gly Ser Ala Tyr 100 Leu Tyr Thr Tyr Val 105 Thr Val Gly Glu Leu Trp Ala 110

Phe Ile Thr 115 Gly Trp Asn Leu Ile 120 Leu Ser Tyr Val Ile 125 Gly Thr Ser

Ser Val 130 Ala Arg Ala Trp Ser 135 Gly Thr Phe Asp Glu 140 Leu Leu Ser Lys

Gln Ile Gly Gln Phe 145 Leu Arg Thr Tyr Phe Arg 155 Met Asn Tyr Thr Gly 160

Leu Ala Glu Tyr 165 Pro Asp Phe Phe Ala Val 170 Cys Leu Ile Leu Leu 175

Ala Gly Leu 180 Leu Ser Phe Gly Val Lys 185 Glu Ser Ala Trp Val 190 Asn Lys

Val Phe Thr 195 Ala Val Asn Ile Leu Val 200 Leu Leu Phe Val 205 Met Val Ala

Gly Phe Val 210 Lys Gly Asn Val 215 Ala Asn Trp Lys Ile 220 Ser Glu Glu Phe

Leu Lys Asn Ile Ser 225 Ala Ser Ala Arg Glu Pro 235 Pro Ser Glu Asn Gly 240

Thr Ser Ile Tyr 245 Gly Ala Gly Gly Phe Met 250 Pro Tyr Gly Phe Thr 255 Gly

Thr Leu Ala 260 Gly Ala Ala Thr Cys Phe 265 Tyr Ala Phe Val 270 Gly Phe Asp

Cys Ile Ala 275 Thr Thr Gly Glu Glu 280 Val Arg Asn Pro Gln 285 Lys Ala Ile

Pro Ile Gly Ile Val Thr 290 Ser Leu Leu Val Cys Phe 300 Met Ala Tyr Phe

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Gly Val Ser Ala Ala Leu Thr Leu Met Met Pro Tyr Tyr Leu Leu Asp  
305 310 315 320

Glu Lys Ser Pro Leu Pro Val Ala Phe Glu Tyr Val Gly Trp Gly Pro  
325 330 335

Ala Lys Tyr Val Val Ala Ala Gly Ser Leu Cys Ala Leu Ser Thr Ser  
340 345 350

Leu Leu Gly Ser Met Phe Pro Leu Pro Arg Ile Leu Phe Ala Met Ala  
355 360 365

Arg Asp Gly Leu Leu Phe Arg Phe Leu Ala Arg Val Ser Lys Arg Gln  
370 375 380

Ser Pro Val Ala Ala Thr Leu Thr Ala Gly Val Ile Ser Ala Leu Met  
385 390 395 400

Ala Phe Leu Phe Asp Leu Lys Ala Leu Val Asp Met Met Ser Ile Gly  
405 410 415

Thr Leu Met Ala Tyr Ser Leu Val Ala Ala Cys Val Leu Ile Leu Arg  
420 425 430

Tyr Gln Pro Gly Leu Ser Tyr Asp Gln Pro Lys Cys Ser Pro Glu Lys  
435 440 445

Asp Gly Leu Gly Ser Ser Pro Arg Val Thr Ser Lys Ser Glu Ser Gln  
450 455 460

Val Thr Met Leu Gln Arg Gln Gly Phe Ser Met Arg Thr Leu Phe Cys  
465 470 475 480

Pro Ser Leu Leu Pro Thr Gln Gln Ser Ala Ser Leu Val Ser Phe Leu  
485 490 495

Val Gly Phe Leu Ala Phe Leu Val Leu Gly Leu Ser Val Leu Thr Thr  
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Tyr Gly Val His Ala Ile Thr Arg Leu Glu Ala Trp Ser Leu Ala Leu  
515 520 525

Leu Thr Leu Phe Leu Val Leu Phe Val Ala Ile Val Leu Thr Ile Trp  
530 535 540

Arg Gln Pro Gln Asn Gln Gln Lys Val Ala Phe Met Val Pro Phe Leu  
545 550 555 560

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Pro Phe Leu Pro Ala Phe Ser Ile Leu Val Asn Ile Tyr Leu Met Val  
565 570 575

Gln Leu Ser Ala Asp Thr Trp Val Arg Phe Ser Ile Trp Met Ala Ile  
580 585 590

Gly Phe Leu Ile Tyr Phe Ser Tyr Gly Ile Arg His Ser Leu Glu Gly  
595 600 605

His Leu Arg Asp Glu Asn Asn Glu Glu Asp Ala Tyr Pro Asp Asn Val  
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Pro Arg Asn Leu Ser Ser Pro Phe Ile Phe His Glu Lys Thr Ser Glu  
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<210> 3  
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<212> DNA  
<213> Mus musculus

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<210> 4  
 <211> 657  
 <212> PRT  
 <213> Mus musculus  
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Met Ile Pro Cys Arg Ala Val Leu Thr Phe Ala Arg Cys Leu Ile Arg
1          5          10          15

Arg Lys Ile Val Thr Leu Asp Ser Leu Glu Asp Ser Lys Leu Cys Arg
20          25          30

Cys Leu Thr Thr Val Asp Leu Ile Ala Leu Gly Val Gly Ser Thr Leu
35          40          45

Gly Ala Gly Val Tyr Val Leu Ala Gly Glu Val Ala Lys Ala Asp Ser
50          55          60

Gly Pro Ser Ile Val Val Ser Phe Leu Ile Ala Ala Leu Ala Ser Val
65          70          75          80

Met Ala Gly Leu Cys Tyr Ala Glu Phe Gly Ala Arg Val Pro Lys Thr

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Gly Ser Ala Tyr Leu Tyr Thr Tyr Val Thr Val Gly Glu Leu Trp Ala  
 100 105 110  
 Phe Ile Thr Gly Trp Asn Leu Ile Leu Ser Tyr Val Ile Gly Thr Ser  
 115 120 125  
 Ser Val Ala Arg Ala Trp Ser Gly Thr Phe Asp Glu Leu Leu Asn Lys  
 130 135 140  
 Gln Ile Gly Gln Phe Phe Lys Thr Tyr Phe Lys Met Asn Tyr Thr Gly  
 145 150 155 160  
 Leu Ala Glu Tyr Pro Asp Phe Phe Ala Val Cys Leu Val Leu Leu Leu  
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 Ala Gly Leu Leu Ser Phe Gly Val Lys Glu Ser Ala Trp Val Asn Lys  
 180 185 190  
 Phe Phe Thr Ala Ile Asn Ile Leu Val Leu Leu Phe Val Met Val Ala  
 195 200 205  
 Gly Phe Val Lys Gly Asn Val Ala Asn Trp Lys Ile Ser Glu Glu Phe  
 210 215 220  
 Leu Lys Asn Ile Ser Ala Ser Ala Arg Glu Pro Pro Ser Glu Asn Gly  
 225 230 235 240  
 Thr Ser Ile Tyr Gly Ala Gly Gly Phe Met Pro Tyr Gly Phe Thr Gly  
 245 250 255  
 Thr Leu Ala Gly Ala Ala Thr Cys Phe Tyr Ala Phe Val Gly Phe Asp  
 260 265 270  
 Cys Ile Ala Thr Thr Gly Glu Glu Val Arg Asn Pro Gln Lys Ala Ile  
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 Pro Ile Gly Ile Val Thr Ser Leu Leu Val Cys Phe Met Ala Tyr Phe  
 290 295 300  
 Gly Val Ser Ala Ala Leu Thr Leu Met Met Pro Tyr Tyr Leu Leu Asp  
 305 310 315 320  
 Glu Lys Ser Pro Leu Pro Val Ala Phe Glu Tyr Val Arg Trp Gly Pro  
 325 330 335

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Ala Lys Tyr Val Val Ala Ala Gly Ser Leu Cys Ala Leu Ser Thr Ser  
340 345 350

Leu Leu Gly Ser Met Phe Pro Leu Pro Arg Ile Leu Phe Ala Met Ala  
355 360 365

Arg Asp Gly Leu Leu Phe Arg Phe Leu Ala Arg Val Ser Lys Arg Gln  
370 375 380

Ser Pro Val Ala Ala Thr Met Thr Ala Gly Val Ile Ser Ala Val Met  
385 390 395 400

Ala Phe Leu Phe Asp Leu Lys Ala Leu Val Asp Met Met Ser Ile Gly  
405 410 415

Thr Leu Met Ala Tyr Ser Leu Val Ala Ala Cys Val Leu Ile Leu Arg  
420 425 430

Tyr Gln Pro Gly Leu Cys Tyr Glu Gln Pro Lys Tyr Thr Pro Glu Lys  
435 440 445

Glu Thr Leu Glu Ser Cys Thr Asn Ala Thr Leu Lys Ser Glu Ser Gln  
450 455 460

Val Thr Met Leu Gln Gly Gln Gly Phe Ser Leu Arg Thr Leu Phe Ser  
465 470 475 480

Pro Ser Ala Leu Pro Thr Arg Gln Ser Ala Ser Leu Val Ser Phe Leu  
485 490 495

Val Gly Phe Leu Ala Phe Leu Ile Leu Gly Leu Ser Ile Leu Thr Thr  
500 505 510

Tyr Gly Val Gln Ala Ile Ala Arg Leu Glu Ala Trp Ser Leu Ala Leu  
515 520 525

Leu Ala Leu Phe Leu Val Leu Cys Ala Ala Val Ile Leu Thr Ile Trp  
530 535 540

Arg Gln Pro Gln Asn Gln Gln Lys Val Ala Phe Met Val Pro Phe Leu  
545 550 555 560

Pro Phe Leu Pro Ala Phe Ser Ile Leu Val Asn Ile Tyr Leu Met Val  
565 570 575

Gln Leu Ser Ala Asp Thr Trp Ile Arg Phe Ser Ile Trp Met Ala Leu  
580 585 590

AM101023-2 Sequence Listing.ST25.txt

Gly Phe Leu Ile Tyr Phe Ala Tyr Gly Ile Arg His Ser Leu Glu Gly  
595 600 605

Asn Pro Arg Asp Glu Glu Asp Asp Glu Asp Ala Phe Ser Glu Asn Ile  
610 615 620

Asn Val Ala Thr Glu Glu Lys Ser Val Met Gln Ala Asn Asp His His  
625 630 635 640

Gln Arg Asn Leu Ser Leu Pro Phe Ile Leu His Glu Lys Thr Ser Glu  
645 650 655

Cys

<210> 5  
<211> 1447  
<212> DNA  
<213> Homo sapiens

<400> 5  
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AM101023-2 Sequence Listing.ST25.txt

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<210> 6  
 <211> 322  
 <212> PRT  
 <213> Homo sapiens

<400> 6

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          20          25          30

Lys Ala Gly Leu Leu Glu Lys Leu Lys Glu Gln Glu Cys Asp Val Lys
          35          40          45

Asp Tyr Gly Asp Leu Pro Phe Ala Asp Ile Pro Asn Asp Ser Pro Phe
          50          55          60

Gln Ile Val Lys Asn Pro Arg Ser Val Gly Lys Ala Ser Glu Gln Leu
65          70          75          80

Ala Gly Lys Val Ala Glu Val Lys Lys Asn Gly Arg Ile Ser Leu Val
          85          90          95

Leu Gly Gly Asp His Ser Leu Ala Ile Gly Ser Ile Ser Gly His Ala
          100          105          110

Arg Val His Pro Asp Leu Gly Val Ile Trp Val Asp Ala His Thr Asp
          115          120          125

Ile Asn Thr Pro Leu Thr Thr Thr Ser Gly Asn Leu His Gly Gln Pro
          130          135          140

Val Ser Phe Leu Leu Lys Glu Leu Lys Gly Lys Ile Pro Asp Val Pro
          145          150          155          160

Gly Phe Ser Trp Val Thr Pro Cys Ile Ser Ala Lys Asp Ile Val Tyr

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165

170

175

Ile Gly Leu Arg Asp Val Asp Pro Gly Glu His Tyr Ile Leu Lys Thr  
180 185 190

Leu Gly Ile Lys Tyr Phe Ser Met Thr Glu Val Asp Arg Leu Gly Ile  
195 200 205

Gly Lys Val Met Glu Glu Thr Leu Ser Tyr Leu Leu Gly Arg Lys Lys  
210 215 220

Arg Pro Ile His Leu Ser Phe Asp Val Asp Gly Leu Asp Pro Ser Phe  
225 230 235 240

Thr Pro Ala Thr Gly Thr Pro Val Val Gly Gly Leu Thr Tyr Arg Glu  
245 250 255

Gly Leu Tyr Ile Thr Glu Glu Ile Tyr Lys Thr Gly Leu Leu Ser Gly  
260 265 270

Leu Asp Ile Met Glu Val Asn Pro Ser Leu Gly Lys Thr Pro Glu Glu  
275 280 285

Val Thr Arg Thr Val Asn Thr Ala Val Ala Ile Thr Leu Ala Cys Phe  
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Gly Leu Ala Arg Glu Gly Asn His Lys Pro Ile Asp Tyr Leu Asn Pro  
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Pro Lys

<210> 7  
<211> 1221  
<212> DNA  
<213> Mus musculus

<400> 7  
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